IRRIGATION SYSTEM, SPRINKLER

DESIGN AND CHECK DATA REQUIREMENTS

The following items must be addressed in the design folder for the *Sprinkler* Irrigation System.

Survey Record

1. Slope of each area to be irrigated
2. Profile along the proposed centerline(s) of pipelines.
3. Random shots necessary for the plan view map and design purposes.

Design Record

1. Documented compliance with Pennsylvania One Call.
2. Plan view map showing; Location of all planned practices and components, apparent property lines, and existing water courses.
3. System capacity calculations.
4. Pipe sizes and velocities.
5. Depth of application, application rate, frequency, pressure, distribution patterns (uniformity coefficient), and soil types.
6. Support data for sprinkler head, nozzle, and pump selection.
7. Reinforcement and strength of concrete in Settling and pump tanks, or other concrete structures.
8. Quantity computations and cost estimates.
9. Complete Section 6 or PA442 Construction Specification.
10. E&S Control Plan.
11. Vegetation Plan.
12. O&M Plan.

Check Data Record

1. Extent of completed work (as built drawings).
2. Location and Dimensions of pipelines, and other appurtenances (valves, tanks, etc.).
3. Minimum cover and grade-lines for underground pipelines.
4. Make, model, and performance data for all nozzles, pumps, and other related appurtenances.